

Appl. No. 10/010,244
Response dated March 27, 2006
Reply to Office action of October 25, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously presented). A medical method, comprising:

a) advancing a clip over body tissue, said clip having two substantially parallel arms each having a respective piercing portion and a bridge coupling the two arms, such that said body tissue is located between said two arms and such that said clip applies force to said body tissue; and

b) subsequently bending said piercing portion of at least one of said two arms through more than one half a thickness of said body tissue, said two arms remaining substantially parallel throughout the time said piercing portion of said at least one arm is bent.

Claim 2 (previously presented). A method according to claim 1, wherein:

said bending comprises bending said piercing portion completely through said body tissue.

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Claim 3 (previously presented). A method according to claim 2, wherein:

said bending comprises bending said piercing portion into contact with said piercing portion of the other of said two arms.

Claim 4 (previously presented). A method according to claim 2, wherein:

said bending comprises bending said piercing portion of both of said arms completely through said body tissue.

Claim 5 (previously presented). A method according to claim 1, wherein:

said tissue comprises tissue which is folded on itself to form a first portion of a fold and a second portion of the fold, and

said bending comprises bending said piercing portion of said at least one of said two arms through said first portion of the fold and at least partially through said second portion of the fold.

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Claim 6 (previously presented). A method according to claim 1, further comprising:

prior to said advancing, manipulating said tissue so that said tissue is folded on itself.

Claim 7 (original). A method according to claim 6, wherein:

said tissue is an invaginated fundus of a stomach and the fold includes several layers of the invaginated fundus folded on itself.

Claim 8 (original). A method according to claim 7, wherein:

said manipulating is done by grabbing the fundus of the stomach with a grasping instrument and pulling on the fundus to cause invagination of the stomach.

Claim 9 (previously presented). A method according to claim 6, further comprising:

c) compressing and clamping first and second portions of a fold in said tissue into contact with each other prior to said advancing.

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Claim 10 (previously presented). A method according to claim 9, wherein:

said advancing, said clamping, and said bending are accomplished by using a single instrument.

Claim 11 (previously presented). A method according to claim 1, wherein:

said advancing and said bending are accomplished by using a single instrument.

Claim 12 (original). A method according to claim 1, wherein:

said tissue comprises two separate pieces of tissue.

Claim 13 (withdrawn under Species II of Group I). A medical method, comprising:

a) sliding two substantially straight unconnected arms over a fold of body tissue such that a first of said two arms contacts a first portion of said fold and a second of said two arms contacts a second portion of said fold; and

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b) bending each of said two arms completely through said fold such that both of said two arms compress said first and second portions of said fold into contact with each other.

Claim 14 (withdrawn under Species II of Group I). A method according to claim 13, further comprising:

c) manipulating said body tissue to create said fold prior to said sliding.

Claim 15 (withdrawn under Species II of Group I). A method according to claim 14, wherein:

said fold of body tissue is an invaginated fundus of a stomach.

Claim 16 (withdrawn under Species II of Group I). A method according to claim 15, wherein:

said manipulating is done by grabbing the fundus of the stomach with a grasping instrument and pulling on the fundus to cause invagination of the stomach.

Claim 17 (withdrawn under Species II of Group I). A method according to claim 16, further comprising:

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prior to said sliding, compressing and clamping said first and second portions of said fold into contact with each other.

Claim 18 (withdrawn under Species II of Group I). A method according to claim 15, wherein:

said sliding, said clamping, and said bending are accomplished by using a single instrument.

Claim 19 (withdrawn under Group II). A medical method, comprising:

- a) inserting an endoscope transorally through the esophagus to the stomach;
- b) inserting a grasping device transorally through the esophagus to the stomach;
- c) inserting a surgical clip applier having at least one clip transorally through the esophagus to the stomach;
- d) invaginating the fundus of the stomach with the grasping device;

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e) using the clip applier to first slide the clip over the invaginated fundus and then to apply force to bend at least one end of the clip to pass through the invaginated fundus in order to plicate the fundus.

Claim 20 (withdrawn under Group II). A method according to claim 19, wherein:

said inserting a grasping device comprises inserting the grasping device through a lumen of the endoscope.

Claim 21 (withdrawn under Group II). A method according to claim 20, further comprising:

f) attaching a sheath to an exterior of the endoscope, wherein said inserting a surgical clip applier comprises inserting the clip applier through the sheath.

Claim 22 (withdrawn under Group II). A method according to claim 19, wherein:

said inserting a surgical clip applier comprises attaching the clip applier to the exterior of the endoscope prior to said inserting the endoscope.

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Claim 23 (withdrawn under Group II). A method according to claim 20, wherein:

said inserting a surgical clip applier includes inserting the clip applier through a second lumen of the endoscope.

Claim 24 (withdrawn under Group II). A method according to claim 20, further comprising:

f) attaching a guide to an exterior of the endoscope, wherein said inserting a surgical clip applier comprises attaching the clip applier to the guide.

Claim 25 (withdrawn under Group II). A method according to claim 19, wherein:

said inserting a surgical clip applier comprises attaching the clip applier to the exterior of the endoscope after said inserting the endoscope.

Claim 26 (previously presented). The method according to claim 1, wherein said bending step is performed by bending only said piercing portion of at least one of said two arms through said body tissue.

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Claim 27 (previously presented). A medical method,
comprising:

providing a clip having:

two substantially parallel arms each having a piercing
portion; and

a bridge coupling the two arms;

folding body tissue to form a folded portion extending along a
longitudinal direction;

advancing the clip over the folded portion of body tissue in
the longitudinal direction to place the folded portion between
the two arms and to apply force to the folded portion with the
clip; and

bending the piercing portion of at least one of the two arms
through more than one half a thickness of the folded portion
at an angle to the longitudinal direction, the two arms
remaining substantially parallel throughout the time the
piercing portion of the at least one arm is bent.

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Claim 28 (currently amended). The medical method according to claim 27, further comprising releasably coupling at least a part of one the two arms piercing portion to a respective one of the arms the bridge.

Claim 29 (previously presented). A medical method, comprising:

providing a clip having two substantially parallel arms each having a respective piercing portion and a bridge coupling the two arms;

advancing a clip over body tissue folded on itself to form a first portion of a fold and a second portion of the fold such that the first and second portions are located between the two arms and such that the clip applies force to the body tissue; and

subsequently bending the piercing portion of at least one of the two arms through the first portion of the fold and at least partially through the second portion of the fold, the two arms remaining substantially parallel throughout the time the piercing portion of the at least one arm is bent.

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Claim 30 (previously presented). A method according to claim 29, further comprising performing the advancing, the clamping, and the bending steps with a single instrument.

Claim 31 (previously presented). A method for medically clipping body tissue, comprising:

providing a clip having two substantially parallel arms and a bridge coupling the two arms, the two arms each having a respective piercing portion;

advancing a clip over body tissue folded on itself to form first and second portions of a fold disposed between the two arms and to apply a force to the folded body tissue, the folded tissue defining a longitudinal direction of the folded body tissue, the piercing portions of the two arms being initially oriented along the longitudinal direction; and

subsequently bending the piercing portion of at least one of the two arms to pierce through the first portion of the folded body tissue and at least partially through the second portion of the fold at an angle to the longitudinal direction, the two arms remaining substantially parallel throughout the time the piercing portion of the at least one arm is bent.

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Claim 32 (previously presented). A method for medically clipping body tissue, comprising:

providing a clip having two substantially parallel arms and a bridge coupling the two arms, the two arms each having a respective piercing portion;

advancing a clip over body tissue folded on itself to form first and second portions of a fold disposed between the two arms and to apply a force to the folded body tissue, the folded tissue defining a longitudinal direction of the folded body tissue, the piercing portions of the two arms being initially oriented along the longitudinal direction; and

subsequently bending the piercing portion of at least one of the two arms at an angle to the longitudinal direction to pierce through the first portion of the folded body tissue and at least partially through the second portion of the fold, the two arms remaining substantially parallel throughout the time the piercing portion of the at least one arm is bent.

Claim 33 (previously presented). A medical method, comprising:

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a) advancing a clip over two thicknesses of body tissue, said clip having two substantially parallel arms each having a respective piercing portion and a bridge coupling the two arms, such that said body tissue is located between said two arms and such that said clip applies force to said body tissue; and

b) subsequently bending said piercing portion of at least one of said two arms through more than one of said thicknesses of said body tissue, the two arms remaining substantially parallel throughout the time the piercing portion of the at least one arm is bent.

Claim 34 (currently amended). A medical method, comprising:

providing a clip having:

two arms each having a piercing portion; and

a bridge coupling the two arms;

releasably coupling at least a part of one the two arms
piercing portion to a respective one of the arms the bridge.

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folding body tissue to form a folded portion extending along a longitudinal direction;

advancing the clip over the folded portion of body tissue in the longitudinal direction to place the folded portion between the two arms and to apply force to the folded portion with the clip; and

bending the piercing portion of at least one of the two arms through more than one half a thickness of the folded portion at an angle to the longitudinal direction.

Claim 35 (currently amended). The medical method according to claim 34, which comprises releasably coupling each of the two piercing portions to [[of]] the arms ~~to the bridge~~.